
Asthma

Definition: Respondents who have been told by a doctor, nurse, or health professional that they had asthma and that they still have asthma.

Prevalence of Asthma

- South Dakota 7.7%
- Nationwide median 8.5%

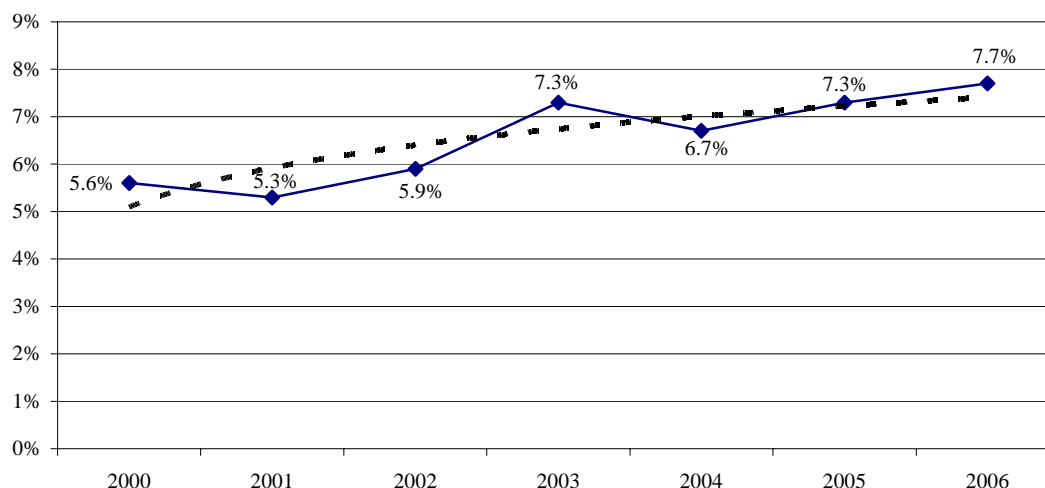
Healthy People 2010 Objective

There was no stated Healthy People 2010 Objective for having asthma.

Trend Analysis

Since this question was first asked in 2000, the percent of respondents who stated they were told they have asthma has increased from 5.6 percent in 2000 to a high of 7.7 percent in 2006.

Figure 22
Percent of Respondents Who Were Told They Have Asthma,
2000-2006



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2000-2006

Demographics

Gender	There is no significant gender difference observed from the available data.
Age	The prevalence of asthma generally decreases as age increases.
Race	American Indians demonstrate a significantly higher prevalence of asthma than whites.
Region	There are no significant regional differences observed from the available data.
Household Income	The prevalence of asthma is higher for those in lower household income groups.
Education	The prevalence of asthma generally decreases as education levels increase. This includes a significant decrease as the high school education level is reached.

Employment Status Those who are unable to work demonstrate a very high prevalence of asthma, while those who are employed for wages, self-employed, or retired show a very low prevalence.

Marital Status There are no significant differences observed from the available data among the different types of marital status.

Table 29
Respondents Who Were Told They Have Asthma, 2006

	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
Total	6,614	7.7	(6.8-8.7)	2,586	7.4	(6.1-9.1)	4,028	8.0	(6.9-9.1)
Age									
18-24	264	10.2	(6.8-15.0)	112	9.9	(5.3-17.9)	152	10.5	(6.3-16.9)
25-34	734	9.8	(7.3-12.9)	284	11.6	(7.6-17.3)	450	7.9	(5.7-10.9)
35-44	1,035	6.6	(5.1-8.5)	420	5.1	(3.2-8.0)	615	8.2	(6.1-10.9)
45-54	1,405	6.5	(5.2-8.2)	586	6.3	(4.4-9.0)	819	6.7	(5.0-8.8)
55-64	1,164	7.1	(5.5-9.0)	498	5.8	(3.8-8.8)	666	8.4	(6.3-11.2)
65-74	936	7.0	(5.3-9.3)	361	8.1	(5.3-12.3)	575	6.1	(4.2-8.8)
75+	1,006	6.7	(5.1-8.7)	302	4.1	(2.2-7.4)	704	8.3	(6.2-11.1)
Race									
White	5,894	7.5	(6.6-8.5)	2,312	7.2	(5.8-8.9)	3,582	7.7	(6.6-8.9)
American Indian	512	13.1	(9.1-18.5)	188	13.9	(7.6-23.9)	324	12.4	(8.3-17.9)
Region									
Southeast	1,483	7.4	(5.8-9.3)	578	8.0	(5.5-11.5)	905	6.8	(5.2-9.0)
Northeast	1,605	6.6	(5.2-8.3)	606	5.8	(3.8-8.8)	999	7.3	(5.6-9.5)
Central	1,350	7.2	(5.8-9.0)	530	7.0	(4.9-10.0)	820	7.4	(5.6-9.7)
West	1,511	8.8	(7.0-11.0)	600	7.8	(5.4-11.2)	911	9.8	(7.4-12.9)
American Indian Counties	665	11.4	(8.1-15.8)	272	9.8	(5.3-17.5)	393	13.2	(9.3-18.4)
Household Income									
Less than \$10,000	311	15.9	(11.0-22.6)	*	*	*	*	*	*
\$10,000-\$14,999	390	10.1	(6.4-15.5)	110	11.7	(4.7-26.0)	280	9.3	(5.8-14.6)
\$15,000-\$19,999	503	10.2	(6.0-16.8)	162	11.5	(4.3-27.2)	341	9.1	(6.4-12.9)
\$20,000-\$24,999	560	10.3	(7.5-13.9)	206	11.0	(7.0-16.8)	354	9.6	(6.1-14.8)
\$25,000-\$34,999	893	9.2	(6.7-12.4)	383	8.9	(5.3-14.6)	510	9.5	(6.7-13.4)
\$35,000-\$49,999	1,130	5.8	(4.3-7.6)	489	6.0	(3.9-9.1)	641	5.6	(3.8-8.0)
\$50,000-\$74,999	1,024	7.1	(5.2-9.6)	480	6.6	(4.1-10.3)	544	7.7	(5.1-11.5)
\$75,000+	916	4.9	(3.4-6.9)	460	4.7	(2.7-8.1)	456	5.0	(3.3-7.7)
Education									
8th Grade or Less	286	10.4	(6.6-16.0)	126	6.6	(3.0-14.0)	160	15.3	(9.3-24.1)
Some High School	340	15.6	(10.3-23.0)	133	14.3	(7.3-26.1)	207	16.9	(9.9-27.5)
High School or G.E.D.	2,126	7.4	(5.8-9.3)	863	7.3	(4.9-10.7)	1,263	7.5	(5.7-9.7)
Some Post-High School	1,830	7.4	(5.9-9.2)	652	7.2	(5.0-10.3)	1,178	7.6	(5.8-9.8)
College Graduate	2,017	6.7	(5.5-8.3)	801	6.8	(4.8-9.6)	1,216	6.7	(5.2-8.4)
Employment Status									
Employed for Wages	3,218	6.5	(5.5-7.7)	1,220	5.9	(4.5-7.9)	1,998	7.1	(5.7-8.7)
Self-employed	911	5.9	(4.2-8.0)	597	5.1	(3.3-7.8)	314	7.9	(4.9-12.2)
Unemployed	180	12.4	(6.7-21.7)	*	*	*	*	*	*
Homemaker	399	9.1	(5.7-14.3)	*	*	*	*	*	*
Retired	1,541	7.7	(6.2-9.4)	549	5.7	(3.8-8.4)	992	9.2	(7.3-11.6)
Unable to Work	267	19.9	(12.4-30.5)	*	*	*	*	*	*
Marital Status									
Married/Unmarried Couple	3,936	7.1	(6.1-8.1)	1,689	6.6	(5.3-8.3)	2,247	7.5	(6.3-8.9)
Divorced/Separated	873	9.6	(7.4-12.3)	341	7.9	(5.0-12.3)	532	10.9	(7.9-14.7)
Widowed	1,023	7.5	(5.9-9.5)	154	3.5	(1.4-8.6)	869	8.3	(6.5-10.7)
Never Married	759	9.5	(6.6-13.4)	394	10.4	(6.4-16.4)	365	8.0	(4.8-13.0)

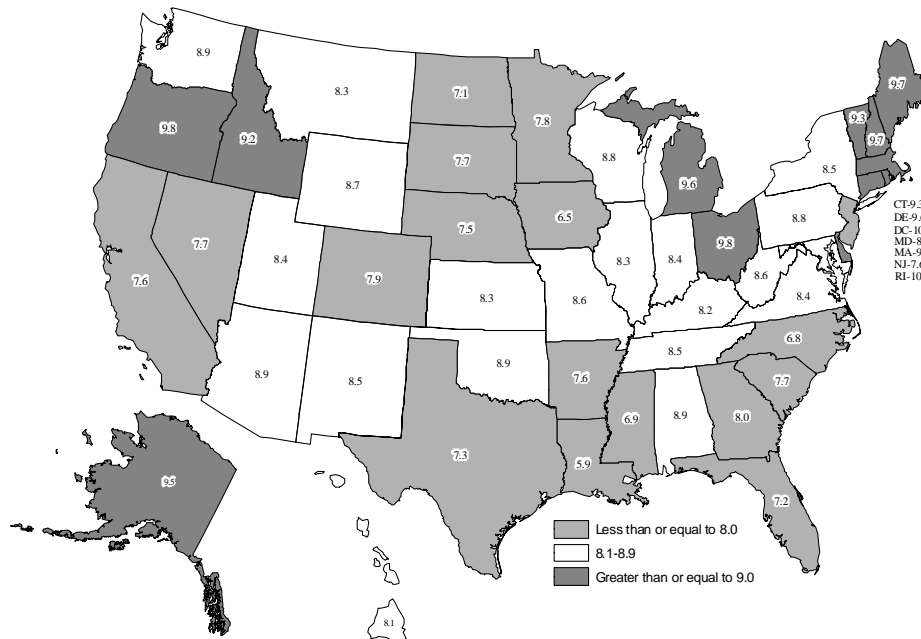
Note: *Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006

National Statistics

The national median for respondents who have asthma was 8.5 percent. South Dakota had 7.7 percent of respondents who have asthma. Louisiana had the lowest percent of respondents who have asthma with 5.9 percent, while Rhode Island had the highest percent of respondents who have asthma with 10.5 percent.

Figure 23
Nationally, Respondents Who Were Told They Have Asthma, 2006



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006

Further Analysis

Following are data illustrating the percent of those who have asthma for various health behaviors and conditions. For example, 16.0 percent of respondents who stated they have fair or poor health have asthma, while 6.6 percent of respondents who stated they have excellent, very good, or good health status have asthma.

Table 30 Have Asthma for Selected Health Behaviors and Conditions, 2006			
Health Behavior or Condition	# Respondents	% Asthma	95% CI
Obese (BMI = 30.0+)	1,670	10.8	9.0-12.8
Overweight (BMI = 25.0-29.9)	2,423	6.2	5.1-7.6
Recommended Weight (BMI = 18.5-24.9)	2,087	7.2	5.5-9.3
No Leisure Time Physical Activity	1,733	10.8	8.7-13.3
Leisure Time Physical Activity	4,875	6.8	5.8-7.8
Not Heard of "Healthy South Dakota" Program	3,872	7.1	6.0-8.4
Heard of "Healthy South Dakota" Program	2,410	8.5	7.1-10.2
Current Smoker	1,242	8.6	6.6-11.2
Former Smoker	1,814	7.4	6.1-9.0
Never Smoked	3,543	7.5	6.3-8.9
Smokeless Tobacco Use	300	6.5	3.8-10.9
No Smokeless Tobacco Use	6,100	7.7	6.8-8.8
Diabetes	597	12.2	9.0-16.2
No Diabetes	6,015	7.4	6.5-8.4

Table 30 (continued)
Have Asthma for Selected Health Behaviors and Conditions, 2006

Health Behavior or Condition	# Respondents	% Asthma	95% CI
No Mammogram within Past Two Years (40+)	776	7.5	5.5-10.1
Mammogram within Past Two Years (40+)	2,253	7.1	6.0-8.3
No Clinical Breast Exam within Past Two Years	865	5.9	4.2-8.2
Clinical Breast Exam within Past Two Years	3,065	8.3	7.1-9.6
No Pap Smear within the Past Three Years	507	6.9	4.4-10.7
Pap Smear within the Past Three Years	2,369	8.0	6.7-9.6
No PSA Test within the Past Two Years (40+)	795	5.1	3.7-7.1
PSA Test within the Past Two Years (40+)	1,055	6.7	5.0-8.7
No Digital Rectal Exam within the Past Two Years (40+)	844	6.6	4.9-8.8
Digital Rectal Exam within the Past Two Years (40+)	1,070	5.4	4.0-7.2
Prostate Cancer (40+)	102	5.0	2.0-11.7
No Prostate Cancer (40+)	1,832	5.9	4.7-7.2
No Blood Stool Test within the Past Two Years (50+)	2,798	6.0	5.1-7.1
Blood Stool Test within the Past Two Years (50+)	860	8.7	6.7-11.2
Never Had a Sigmoidoscopy or Colonoscopy (50+)	1,638	6.9	5.5-8.6
Ever Had a Sigmoidoscopy or Colonoscopy (50+)	2,061	6.4	5.3-7.6
Diagnosed with Cancer in the Past 12 Months	154	7.8	3.8-15.1
Not Diagnosed with Cancer in the Past 12 Months	6,202	7.6	6.7-8.6
Drank Alcohol in Past 30 Days	3,369	7.1	5.9-8.4
No Alcohol in Past 30 Days	3,219	8.5	7.2-9.9
Binge Drinker	865	7.9	5.6-11.1
Not a Binge Drinker	5,570	7.7	6.8-8.8
Heavy Drinker	203	7.9	4.3-14.0
Not a Heavy Drinker	6,224	7.7	6.8-8.7
No Health Insurance (18-64)	403	12.7	8.3-18.9
Health Insurance (18-64)	4,022	7.4	6.3-8.6
Employer Based Health Insurance Coverage (18-64)	2,703	7.0	5.8-8.4
Private Health Insurance Plan (18-64)	569	5.3	3.2-8.6
Medicare (18-64)	126	12.6	5.9-24.9
Medicaid or Medical Assistance (18-64)	169	10.1	6.2-15.9
The Military, CHAMPUS, TriCare, or the VA (18-64)	175	9.9	5.8-16.2
The Indian Health Service (18-64)	224	14.9	8.3-25.2
No Flu Shot (65+)	522	6.1	4.2-8.9
Flu Shot (65+)	1,413	7.1	5.7-8.9
No Pneumonia Shot (65+)	645	3.3	1.9-5.6
Pneumonia Shot (65+)	1,229	8.5	6.8-10.5
Haven't Been to the Dentist in the Past Year	2,118	8.3	6.9-9.9
Been to the Dentist in the Past Year	4,471	7.5	6.4-8.7
Not Taking any Precautions Against West Nile Virus	2,741	6.8	5.4-8.4
Taking Precautions Against West Nile Virus	3,614	8.3	7.2-9.6
Sometimes/Seldom/Never Wear Seat Belt	1,147	7.1	5.4-9.3
Always/Almost Always Wear Seat Belt	5,355	7.8	6.8-8.9
Previously Had a Heart Attack	450	10.9	7.8-15.0
Never Had a Heart Attack	6,140	7.5	6.6-8.5
Have Angina or Coronary Heart Disease	387	8.9	5.9-13.1
Do Not have Angina or Coronary Heart Disease	6,175	7.6	6.7-8.6
Previously Had a Stroke	247	15.7	9.2-25.6
Never Had a Stroke	6,362	7.5	6.6-8.5
Fair or Poor Health Status	989	16.0	13.1-19.3
Excellent, Very Good, or Good Health Status	5,602	6.6	5.8-7.7
Physical Health Not Good for 30 Days of the Past 30	421	17.1	11.5-24.6
Physical Health Not Good for 0-29 Days of the Past 30	6,072	7.2	6.4-8.2

Table 30 (continued)			
Have Asthma for Selected Health Behaviors and Conditions, 2006			
Health Behavior or Condition	# Respondents	% Asthma	95% CI
Mental Health Not Good for 20-30 Days of the Past 30	349	14.7	9.8-21.4
Mental Health Not Good for 0-19 Days of the Past 30	6,169	7.4	6.5-8.4
Usual Activities Unattainable for 10-30 Days of the Past 30	446	18.9	13.7-25.5
Usual Activities Unattainable for 0-9 Days of the Past 30	6,105	7.0	6.1-7.9
Dissatisfied / Very Dissatisfied with Life	232	17.6	11.1-26.6
Satisfied / Very Satisfied with Life	6,176	7.4	6.6-8.4
Physical, Mental, or Emotional Disability	1,508	14.4	11.9-17.3
No Physical, Mental, or Emotional Disability	5,085	6.1	5.3-7.1
Disability with Special Equipment Needed	532	15.1	11.7-19.2
No Disability with Special Equipment Needed	6,079	7.3	6.4-8.3
Injured in a Fall (45+)	232	16.8	11.4-24.1
Not Injured in a Fall (45+)	4,252	6.1	5.3-7.0
Never Been Tested for HIV (18-64)	3,538	7.8	6.6-9.2
Been Tested for HIV (18-64)	895	8.4	6.5-10.7
Military Veteran	999	6.7	5.1-8.8
Not a Military Veteran	5,600	7.9	6.9-9.0

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006